



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200  
Fax 613 632-5246

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0042454	MEC002-VU	5	1	Net 30	M303B1.000X03.000	303 Bar 1" X 3' MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft				12	2/18/2019	12		S154893	Stock	2/19/2019	\$ 113.24 / ft	0		\$1,314.72	Metaux Castle
		6			M303B1.500X3.500	303 Bar 1.500" X 3.500" MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft					2/29/2019	11		S154894	Stock	2/19/2019	\$ 159.02 / ft	0		\$1,817.60	Metaux Castle
Total:										24		23								\$3,132.32	

Plex 2/19/2019 5:14 PM dart Tollis Andrew

Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada



Tel (613) 632-5200

**PURCHASE ORDER**  
**P0042454**

**Supplier:**

MEC002-VU  
Metaux Castles  
P.O. Box 4090 Sin A  
Toronto  
ON  
M5W 0E9 Canada

**Ship To:**

1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:**

P0042454

**PO Date:**

1/31/19

**Purchase Order**

2/25/19

**Revision:****Revision Date:**

Lavoie, ChantalPhone:  
clavoie@dartaero.com

**Ship-To Contact:**

Ground

**Via:**

Net 30

**Freight Terms:****Special Comments:**

Line	Job	Part	Supplier	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
------	-----	------	----------	-------------	--------	---------	----------	----------------	-------------------	---------	------------------	----------------

1		M7075T6S1.500X1.500		7075-T6S Sheet 1.5" Thick Plate X 1.5" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed -		2/25/19	24 ft	0 ft	24 ft	\$23.25/ft	\$558.00
2		M7075T6S6.000X1.000		7075-T6S Sheet 6" Thick Plate X 1" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed -		2/25/19	12 ft	0 ft	12 ft	\$50.85/ft	\$610.20

Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada  
Tel (613) 632-5200



**PURCHASE ORDER**  
**P0042454**

Line Item	Job	Part	Supplier	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
-----------	-----	------	----------	-------------	--------	---------	----------	----------------	-------------------	---------	------------------	----------------

3		M17-4-R0.750		17-4 Round Bar S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed -		2/8/19	24 ft	0 ft	24 ft	\$7.66/ft	\$183.84
								✓ 24ft			At (9/22/16)	

4		M17-4-H1150-R2.500		17-4 SS H1150 Round Bar 2.500" : MATERIAL: 17- 4 PH CONDITION H1150 MATERIAL: 17-4 PH / S 17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564 H1150 MIN. YIELD TENSILE STRENGTH 105 H1150 MIN. ULTIMATE STRENGTH 135 receive ft	Firmed -		2/8/19	6 ft	0 ft	6 ft	\$76.65/ft	\$459.90
								✓ 6ft			At (9/22/16)	

Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada  
Tel (613) 632-5200



**PURCHASE ORDER**  
**P0042454**

Items

Line	Item Job	Part	Supplier	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
------	----------	------	----------	-------------	--------	---------	----------	----------------	-------------------	---------	------------------	----------------

5	Ar	M303B1.000X03.000		303 Bar 1" X 3' MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed -		2/18/19	12 ft	0 ft	12 ft	\$113.24/ft	\$1,358.88
---	----	-------------------	--	--	----------	--	---------	-------	------	-------	-------------	------------

6	M	M303B1.500X3.500		303 Bar 1.500" X 3.500" MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed -		2/25/19	12 ft	0 ft	12 ft	\$159.02/ft	\$1,908.24
---	---	------------------	--	--	----------	--	---------	-------	------	-------	-------------	------------

7	Ar	M304B1.000X1.000		304 Bar 1.00 X 1.00 MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed -		2/18/19	12 ft	0 ft	12 ft	\$16.28/ft	\$195.36
---	----	------------------	--	---	----------	--	---------	-------	------	-------	------------	----------

Grand Total: \$5,274.42

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable), No Raw Metals from China or Soviet Bloc Countries

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program.

A049 supplier awareness.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 1/31/19 8:42 AM dart.lavoie.chantal



Castle Metals®

A. M. Castle & Co.

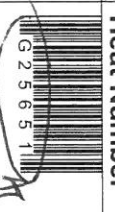
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No.:3829231

<b>Ship From:</b>	<b>Sold To:</b>	<b>Ship To:</b>	<b>Deliver To:</b>
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
<b>Date Shipped</b>	<b>F.O.B.</b>	<b>Freight Terms</b>	<b>Carrier</b>
15-FEB-19	ORIGIN	Prepaid	MANITOU LIN
		<b>BOL No</b>	3829231-2

<b>Shipment Details</b>	<b>Final Destination Branch - TOR</b>
-------------------------	---------------------------------------

<b>Order No</b>	<b>Line No</b>	<b>Item No</b>	<b>Description</b>
5389557	1	67340.BO	1.0000.3.0000.FLAT.303.STAINLESS.HR.ANN.PICKLED.144.0000 SPECIFICATIONS: ASTM A582
<b>Purchase Order No</b>	<b>Part Number</b>	<b>Ordered Qty</b>	<b>Invoice Qty</b>
42454		122.40 LBS	11.6146 FT
<b>Details</b>	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS		
<b>Delivery No.</b>	<b>Mill/Source</b>	<b>Heat Number</b>	<b>Mech Id</b>
122556714			1
		<b>PCS</b>	<b>Width (IN)</b>
			139.3750
		<b>Length (IN)</b>	<b>Shipped Qty(LBS)</b>
		119.0000	

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material not to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

FEB 15 2019

Date:

Name:

*Valero*





Order No: 4335982  
Time 15:54:13

**FRY STEEL COMPANY**  
13325 MOLETTE ST.  
SANTA FE SPRINGS, CA 90670  
(562) 802-2721

C02240  
Cust. NO.: 44550 EMAIL  
P.O. NO.:

3/4

## CERTIFICATE OF COMPLIANCE

CASTLE METALS CO  
1420 KENSINGTON RD #220  
\*PARAMOUNT WILL CALL ONLY\*  
OAK BROOK IL 60523

CASTLE METALS  
2150 ARGENTIA ROAD  
MISSISSAUGA ON L5N 2K7 CANADA

#150766511

02/01/19

QTY	--DESCRIPTION--	--ITEM CODE--	--HEAT NUMBER--
	HR&P 302 SULF ANN ASTMA 582 RED M		
1	BAR 1 X 3"FL HT# G25651	12'RL 29090	G25651
	ITEM# 67340.BO SALES ORDER# 5389557 *BROKER:GHY INTERNATIONAL* 604-270-2363		

PAYABLE IN U.S. CURRENCY ONLY

### NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE  
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION (I.E. MAG., SONIC, ETC.)

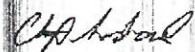
WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED  
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM  
CONTAMINATION AT TIME OF SHIPMENT

CALIF. PROP. 65: CONTAINS ELEMENTS KNOWN TO THE STATE OF CALIF TO CAUSE CANCER OR REPRODUCTIVE TOXICITY INCLUDING CR compounds, CO AND NI  
The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.

WHEN APPLICABLE

-- TO THE BEST OF OUR KNOWLEDGE MATERIAL IS CONFLICT MINERAL FREE --

  
CHIP SANDOVAL - Q.C. MANAGER



**UNIVERSAL STAINLESS**  
**Dunkirk Specialty Steel, LLC.**  
830 Brigham Road | Dunkirk, NY 14048  
(716) 366-1000  
**Material Certification**



#150766511

MILL ORDER: 0087759  
PART NUMBER: S#29090  
P.O. NUMBER: 49466-4  
SERIAL NUMBER: DNK-0087759-G25651-09278

PAGE NUMBER: 1 of 1  
P.O. DATE: 7/19/2018  
PRINTED: 11/13/18 08:58

S	FRY STEEL COMPANY	S	FRY STEEL CO
O T	P.O. BOX 4048	H T	C/O C.M.I. FREIGHT TRANS
L O		I O	3751 CEDAR CREEK DRIVE
D		P	
	SANTA FE SPRINGS, CA 90670		JOLIET, IL 60436

Material Description: STAINLESS STEEL FLAT BAR 303 EAF+AOD ANNEALED PICKLED ASTM A484-18, ASTM A320-18 (B87/303 Class 1), MIL-S-7720 Am. 1 (303S condition A), Federal QQ-S-764B Am. 2 (303 condition A), ASTM A582-12a1 (303 condition A), Federal QQ-S-763C Am. 2 (303 condition A), AMS 5640V Type 1 (ex. finish), HOT ROLLED

Size: 1.0000 X 3.0000 X 132.0000 MIN/ 156.0000 MAX RANDOM LENGTH

Heat Number			C	0.058	MN	1.80	SI	0.31	S	0.20	P	0.020
G25651	FNL	Wt	CR	17.86	W	<0.05	V	0.04	NI	8.26	MO	0.13
			CO	<0.05	CU	0.43	SN	0.004	PB		CB	0.03
			TA		AL	0.01	TI	0.01	FE		B	
			O		MG		CA		SE		ZR	
			AG		BI		N	0.040	H		CQ	

TENSILE: DIR. T/S KSI 0.2% Y/S KSI %EL %R/A  
LONG. 89.4 32.2 69.57 72.56

HARDNESS: 161 HBW

MACRO ETCH: as-received - TEST WAS PERFORMED BY UNIVERSAL STAINLESS, BRIDGEVILLE, PA  
S - 1 R - 1 C - 1

MICROSTRUCTURE: ACCEPTABLE - NO DITCHING FOUND

THIS MATERIAL WAS SOLUTION ANNEALED AT A TEMPERATURE OF 1900°F (+/-25) FOR 1 HOUR FOLLOWED BY WATER QUENCH

FRY STEEL CO. CERTIFIES THAT THIS IS  
A TRUE COPY OF THE ORIGINAL MILL TEST  
REPORT NOW ON FILE  
RECEIVED AND INSPECTED

NOV 16 2018

BY Chip Bandoval  
CHIP BANDOVAL - Q.C. MANAGER

Date: 11/13/18

/s/ Amy Giordano  
Amy Giordano

/s/ Adam Gurman  
Adam Gurman

Prepared by: Amy Giordano

Adam Gurman, Process Metallurgist

Melted in Bridgeville, PA., USA or North Jackson, OH., USA and re-melted if required in one of USAP facilities in North Jackson, OH., USA, or Titusville, PA., USA, Bridgeville, PA., USA. Chemistry is tested by USAP in Bridgeville, PA., USA. Manufactured in the USA. The test results shown are certified to be a correct statement of records that were derived from testing samples of the material. Results meet applicable specifications. No welding was performed on the material supplied on this order. Material is free from mercury contamination. Material has not been cleaned prior to heat treatment. Material is of NAFTA origin. This material was produced under the Dunkirk Specialty Steel Quality Assurance Management System documented in QM, Rev 14 dated 1/28/2018, conforming to NCA-3800. Material testing was performed as applicable (latest revision) in accordance with ASTM A370, A604, E8, E10, E18, E23, E45, E112, E139, E381, E572, E1019, E1086, E1444, A561, A255, E1077, E384 & AMS 2315. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes, including Federal Law, Title 18, Chapter 47. Test results are maintained in company records. If applicable: Decarb test - furnace atmosphere is Argon; Corrosion Test (ASTM A262 Practice A) - Etchant used -10% Oxalic Acid; Microstructure @ magnification 250 - 500X. Unless otherwise stated, tensile, hardness and metallography tests are at room temperature; Percentage Elongation is measured in 4D and Speed of Testlag: 0.005 in/in/min.; 0.05 in/in/min. Universal Stainless has complied with all producer requirements of AS6279 as applicable. Melted and manufactured in compliance with DFARS 252.225-7008, DFARS 252.225-7009 ALTI. Certification LAW DIN50 049/EN 10204 3.1. Material complies with EU directive 2002/95/EC (RoHS). This certification shall not be produced, except in full, without written approval of Dunkirk Specialty Steel.

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303SS BAR  
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A582

PART NUMBER:

M303B TTT X WWW  
THICK WIDTH

WHERE "TTT" = THICKNESS IN INCHES  
AND "WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M303B0.500X03.000

RELEASED  
R 2010-02-02  
NPL

B	REFORMAT DWG. ADD SPECS (ZN D8-1); REF PAR 08-020A	CP	10.01.05
A	NEW ISSUE	DS	02.05.29
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAYESBURY, ONTARIO, CANADA			
DRAWING NO. M303B		REV. B	
TITLE 303 BAR		SHEET 1 OF 1	
SCALE NTS			
COPYRIGHT © 2005 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR FOR ANY REASON WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303B1.000x03.000  
 DATE: 1/9/2019

PO / BATCH NO.: P0042454/S154843

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 21.6151  
 QUANTITY INSPECTED: 11.6151  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"  
 THICKNESS RECEIVED: 1.000"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	ASTM A582
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	M: E25651
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u><span style="color: blue;">61</span></u> DATE: <u>FEB 19 2019</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Castle Metals®

A. M. Castle & Co.

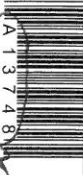
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:3829231

<b>Ship From:</b>	<b>Sold To:</b>	<b>Ship To:</b>	<b>Deliver To:</b>	
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b>	<b>F.O.B.</b>	<b>Freight Terms</b>	<b>Carrier</b>	<b>BOL No</b>
15-FEB-19	ORIGIN	Prepaid	MANITOU LIN	3829231-2

**Shipment Details** Final Destination Branch - TOR

Order No	Line No	Item No	Description				
5389589	1	BF1237249.BO	1.5000.3.5000.FLAT.303.STAINLESS.HRAP.144.0000 SPECIFICATIONS: ASTM A582				
Purchase Order No	Part Number	Ordered Qty	Invoice Qty				
42454		214.20 LBS	11.4271 FT				
Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS						
Delivery No.	Mill/Source	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
122556781		 LA13748		1		137.1250	205.0000

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements of the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

FFR 15 2019

Date:

Name:

*Palano*



Order No: 4335988  
Time 16:49:49



**FRY STEEL COMPANY**  
13325 MOLETTE ST.  
SANTA FE SPRINGS, CA 90670  
(562) 802-2721

C02240  
Cust. NO.: 44551-EMAIL  
P.O. NO.: 3/4

## CERTIFICATE OF COMPLIANCE

CASTLE METALS CO  
1420 KENSINGTON RD #220  
\*PARAMOUNT WILL CALL ONLY\*  
OAK BROOK IL 60523

CASTLE METALS  
2150 ARGENTIA ROAD  
MISSISSAUGA ON L5N 2K7 CANADA

#1507665

02/01/19

QTY	--DESCRIPTION--	--ITEM CODE--	--HEAT NUMBER--
	HRA&P 803 SULF ASTMA 582 RED		
1	BAR 1-1/2 X 3-1/2" FL USE HT# A13748-CRUCIBLE	12'RL 294	A13748
	PH# 905-816-4079 ITEM# BF1237249.BO BROKER: GHY INTERNATIONAL (604) 270-2363		

PAYABLE IN U.S. CURRENCY ONLY

### NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED\*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.  
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION (I.E. MAG., SONIC, ETC.)

WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED  
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM  
CONTAMINATION AT TIME OF SHIPMENT

CALIF. PROP. 65: CONTAINS ELEMENTS KNOWN TO THE STATE OF CALIF. TO CAUSE CANCER OR REPRODUCTIVE TOXICITY INCLUDING CR COMPOUNDS, CO AND NI  
The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.  
\*WHEN APPLICABLE

-- TO THE BEST OF OUR KNOWLEDGE MATERIAL IS CONFLICT MINERAL FREE --

CHIP SANDOVAL - Q.C. MANAGER





575 STATE FAIR BLVD.  
SOLVAY, NY 13209

# Certificate of Test

Cert Date: 09/10/18

#150766511



SO  
LD  
TO  
FRY STEEL COMPANY  
13325 MOLETTE ST  
SANTA FE SPRINGS, CA 90670

SH  
IP  
TO  
FRY STEEL COMPANY  
13325 MOLETTE ST  
SANTA FE SPRINGS, CA 90670

CIL ORDER NO.  
P5-10985-8-01

HEAT NO.  
A13748

CIL INSIDE SALES REP.  
L HINMAN

SHIPPED FROM  
SOLVAY, NY USA

CUSTOMER P.O.  
49393-5/S29400

CUSTOMER PART NO.  
S29400

QUANTITY SHIPPED 1823 LBS. 1 BDL

ALL MELTING DONE IN USA.

## DESCRIPTION OF MATERIAL

CRU 303 HRAP SIZE 3.500 X 1.500 FLAT  
AMS-5640-V(EX FIN) TYPE 1 ASTM-A484-18 ASTM-A582-12 E1 MIL-S-7720-AMD. 1 QQS-763-C COND A  
QQS-764-B (OBSOLETE) (COND A)

## CHEMICAL ANALYSIS \*

C	MN	P	S	SI	NI	CR	MO	CU	CB	TA
.050	1.73	.029	.200	.49	9.43	17.75	.25	.35	.042	.002

## AS SHIPPED PROPERTIES

### HARDNESS

BHN 149/147

### LONGITUDINAL

TENSILE PSI	84,770	MACRO TEST-ACCEPTABLE
YLD. 2% PSI	41,250	
% ELONG4D	56.1	
RED/AREA%	69.5	

FRY STEEL CO. CERTIFIES THAT THIS IS  
A TRUE COPY OF THE ORIGINAL MILL TEST  
REPORT NOW ON FILE  
RECEIVED AND INSPECTED

SEP 17 2018

BY *[Signature]*  
SHIP SANGUVAL - G.G. MANAGER



THANK YOU FOR SELECTING A QUALITY PRODUCT OF NAFTA ORIGIN MANUFACTURED WITH PRIDE AT CRUCIBLE INDUSTRIES, LLC LOCATED IN SOLVAY, NY USA IN COMPLIANCE WITH FAR 52.255-1 AND FAR 52.225-5. WE PROVIDE MATERIAL FREE OF MERCURY CONTAMINATION AND RATIONS. NO WELD REPAIR IS DONE. CRUCIBLE INDUSTRIES LLC HOLD A CERTIFICATE OF REGISTRATION TO AS9100D/EN 9100:2016 / JISO 9100:2016, ISO 9001:2015 - ANSI/ISO/ASQ Q9001:2015, PRESSURE EQUIPMENT DIRECTIVE (PED) ANNEX I, PARAGRAPH 4.3 of 2014/68/EU or 97/23/EC 7/2. WE WORK UNDER THE GUIDELINES OF ASME SECTION III SUBSECTION NCA-3650. WE ARE COMPLIANT WITH ROHS DIRECTIVE 2011/65/EU, REACH (EC 1907/2006), EN 10204:2004 3.1, AND DFARS 252.225.7001, 7002, 7008, 7009, 7014 ALTERNATE 1. MATERIAL TESTING IS PERFORMED ON A PROLONGATION OF THE BAR IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM A370, E8, E10, E18, E23, E45, E112, E381, E604. \*ACCREDITED CHEMICAL TESTING IS PERFORMED IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM E572, E1019, E1086, E322, E415 AND E1085. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY BE PUBLISHED AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW TITLE 18, CHAPTER 47. PRODUCTS, TECHNICAL DATA, TECHNOLOGY AND SERVICES OF CRUCIBLE INDUSTRIES LLC ARE SUBJECT TO US EXPORT CONTROLS UNDER THE APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES.

Page 1 of 1

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED ACCORDANCE WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH THE SPECIFICATION REQUIREMENTS.  
CRUCIBLE INDUSTRIES LLC

*[Signature]*  
ROBERT TSCHERNJAWSKI - SPECIFICATION EXAMINER

*[Signature]*  
WILLIAM MASTROF - MANAGER OF QUALITY AND PROCESS ENGINEERING

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS BAR  
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A582

PART NUMBER:

M303B TTT X WWW.WWW  
THICK | WIDTH

WHERE "T TTT" = THICKNESS IN INCHES  
AND "WWW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M303B0.500X03.000

**RELEASED**  
R 2010-02-02  
MP

B	REFORMAT DWG. ADD SPECS (ZN D8-1).	CP	10.01.05
A	NEW ISSUE	DS	02.05.29
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		

<b>DART AEROSPACE LTD</b>	
HAYKESBURY, ONTARIO, CANADA	
DRAWING NO.	M303B
TITLE	303 BAR
SCALE	NTS
REV. B	SHEET 1 OF 1

COPYRIGHT © 2002 BY DART AEROSPACE LTD  
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED IN THE EXPRESS CONDITION THAT IT IS  
NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PROVIDED BY DART AEROSPACE LTD.



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303B1.500x3.500  
 DATE: 19/02/19

PO / BATCH NO.: P0042454/S154894

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 11.43Ft  
 QUANTITY INSPECTED: 11.43Ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"  
 THICKNESS RECEIVED: 1.500"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A582
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	HT. 413748
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61 9-89</u> DATE: <u>FEB 19 2019</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in